

WTIO30 FMEE 040017

RSMC / TROPICAL CYCLONE CENTER / LA REUNION  
TROPICAL CYCLONE FORECAST WARNING (SOUTH-WEST INDIAN OCEAN)

0.A WARNING NUMBER: 11/10/20182019

1.A TROPICAL CYCLONE 10 (HALEH)

2.A POSITION 2019/03/04 AT 0000 UTC:

WITHIN 20 NM RADIUS OF POINT 17.0 S / 73.1 E

(SEVENTEEN DECIMAL ZERO DEGREES SOUTH AND  
SEVENTY THREE DECIMAL ONE DEGREES EAST)

MOVEMENT: SOUTH-SOUTH-WEST 8 KT

3.A DVORAK ANALYSIS: 1.0/4.5/D 1.0/24 H

4.A CENTRAL PRESSURE: 978 HPA

5.A MAX AVERAGE WIND SPEED (10 MN): 65 KT

RADIUS OF MAXIMUM WINDS (RMW): 37 KM

6.A EXTENSION OF WIND BY QUADRANTS (KM):

28 KT NE: 280 SE: 430 SW: 430 NW: 190

34 KT NE: 170 SE: 280 SW: 280 NW: 130

48 KT NE: 90 SE: 110 SW: 110 NW: 90

64 KT NE: 50 SE: 50 SW: 50 NW: 50

7.A FIRST CLOSED ISOBAR (PRESSURE / AVERAGE DIAM): 1007 HPA / 800 KM

8.A VERTICAL EXTENSION OF CYCLONE CIRCULATION: DEEP

1.B FORECASTS:

12H: 2019/03/04 12 UTC: 17.9 S / 72.5 E, VENT MAX= 075 KT, TROPICAL CYCLONE

24H: 2019/03/05 00 UTC: 18.8 S / 72.1 E, VENT MAX= 085 KT, TROPICAL CYCLONE

36H: 2019/03/05 12 UTC: 20.0 S / 71.1 E, VENT MAX= 095 KT, INTENSE TROPICAL  
CYCLONE

48H: 2019/03/06 00 UTC: 21.2 S / 69.5 E, VENT MAX= 090 KT, INTENSE TROPICAL  
CYCLONE

60H: 2019/03/06 12 UTC: 21.8 S / 68.8 E, VENT MAX= 080 KT, INTENSE TROPICAL  
CYCLONE

72H: 2019/03/07 00 UTC: 23.1 S / 67.7 E, VENT MAX= 065 KT, TROPICAL CYCLONE

2.B LONGER-RANGE OUTLOOK:

96H: 2019/03/08 00 UTC: 26.3 S / 65.9 E, VENT MAX= 055 KT, SEVERE TROPICAL STORM

120H: 2019/03/09 00 UTC: 30.1 S / 64.3 E, VENT MAX= 050 KT, SEVERE TROPICAL STORM

2.C ADDITIONAL INFORMATION:

T=CI=4.5-

DURING THE LAST 6 HOURS, CLOUD PATTERN HAS IMPROVED. DEEP CONVECTION IS ORGANIZING AROUND THE CENTER INTO A VERY COLD CDO. ACCORDING WITH THE CONVENTIONAL IMAGERY, THE 2255Z 85GHZ SSMIS AND SWATH SHOWS A TOTALLY CONSOLIDATED EYE FEATURE.

THE STEERING FLOW IS EXPECTED TO REMAIN NORTHWARD DUE TO THE WEAKNESS OF THE SUBTROPICAL RIDGE. AT LONGER RANGE, THE SYSTEM MAY MOVE SOUTH-WESTWARD ACCELERATING AHEAD OF A NEW SUBTROPICAL RIDGE. THE CURRENT SCENARIO IS BASED ON A CONSENSUS BETWEEN THIS MAIN GUIDANCE.

THE SYSTEM SHOULD EXPERIENCE FAVORABLE ENVIRONMENTAL CONDITIONS TO KEEP ON ITS STRENGTHENING DURING THE NEXT FEW DAYS. THE VERTICAL WINDSHEAR IS FORECASTED TO REMAIN WEAK AHEAD AN UPPER LEVEL TROUGH THAT PROVIDES A GOOD UPPER LEVEL DIVERGENCE AS A GOOD POLAR OUTFLOW CHANNEL. THE INTENSITY FORECAST IS IN A GOOD AGREEMENT WITH THE ICNW CONSENSUS. FROM WEDNESDAY, THE UPPER LEVEL DIVERGENCE SHOULD DECREASE AND A MODERATE NORTHWESTERN VERTICAL WINDSHEAR SHOULD ESTABLISH. SO THE INTENSITY SHOULD BEGIN TO DECREASE BUT LIMITED BY A GOOD OCEANIC HEAT CONTENT (OHC). FROM FRIDAY, THE WEAKENING SHOULD BECOME MORE SIGNIFICANTLY WITH AN INCREASING VERTICAL WINDSHEAR AND AN INSUFFICIENT OHC.